Enclosure 1

## hydrazines

Hydrazine (diazane), H<sub>2</sub>NNH<sub>2</sub>, and its hydrocarbyl derivatives. When one or more substituents are acyl groups, the compound is a hydrazide. N-Alkylidene derivatives are hydrazones.

See azines, hydrazo compounds. 1995, 67, 1341

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Enclaruse Z

## amides

1. Derivatives of oxoacids R<sub>8</sub>E(=O)<sub>1</sub>(OH)<sub>m</sub> (l ≠ 0) in which an acidic hydroxy group has been replaced by an amino or substituted amino group. Chalcogen replacement analogues are called thio-, seleno- and telluro-amides. Compounds having one, two or three acyl groups on a given nitrogen are generically included and may be designated as primary, secondary and tertiary amides, respectively, e.g. PhC(=O)NH<sub>2</sub> benzamide, CH<sub>3</sub>S(=O)<sub>2</sub>NMe<sub>2</sub> N<sub>2</sub>N-dimethylmethanesulfonamide, [RC(=O)]<sub>2</sub>NH secondary a mides (see imides), [RC(=O)]<sub>3</sub>N tertiary amides, PhP(=O)(OH)NH<sub>2</sub> phenylphosphonamidic acid.

## Notes:

- i. Amides with NH2, NHR and NR2 groups should not be distinguished by means of the terms primary, secondary and tertiary.
- ii. Derivatives of certain acidic compounds RaE(OH)<sub>m</sub>, where E is not carbon (e.g. sulfenic acids, RSOH, phosphinous acids, R2POH) having the structure RaE(NR2)<sub>m</sub> may be named as amides but do not belong to the class amides proper, e.g. CH3CH2SNH2 ethanesulfenamide or ethylsulfanvlamine.
- 2. The term applies also to metal derivatives of ammonia and amines, in which a cation replaces a hydrogen atom on nitrogen. Such compounds are also called azanides, e.g. LiN(Pr<sup>1</sup>)2 lithium diisopropylamide, synonym lithium diisopropylazanide.

See also carboxamides, lactams, peptides, phosphoramides, sulfonamides.

1995, 67, 1315; see also 1993, 65, 1357

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Enclarage 3

## esters

Compounds formally derived from an  $axoacid R_E(=0)_R(OH)_m (I \neq 0)$ , and an alcohol, phenol, heteroarenol, or enol by linking with formal loss of water from an acidic hydroxy group of the former and a hydroxy group of the latter. By extension acyl derivatives of alcohols, etc. Acyl derivatives of chalcogen analogues of alcohols (thiols, selenols, tellurols) etc. are included. E.g. R'C(=0)OR, R'C(=0)SR, R'C(=0)CR, R'C(=0)CR, R'C(=0)CR, R'S(=0)CR, R'S(=0

O-Alkyl derivatives of other acidic compounds [see amides (1)] may be named as esters but do not belong to the class esters proper. E.g. (Ph)2POCH3 methyl diphenylphosphinite.

See also acylals, ortho esters, depsides, depsipeptides, glycerides, lactides, lactones, macrolides.

1995, 67, 1334

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